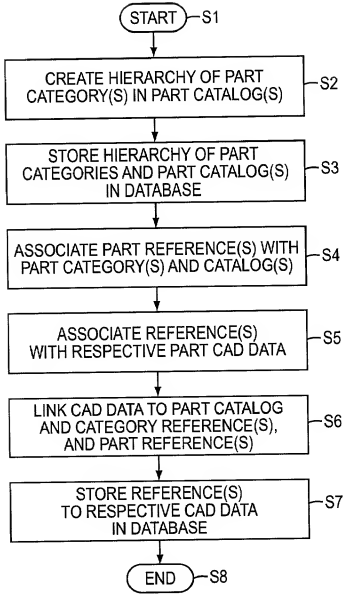

FIG. 1A

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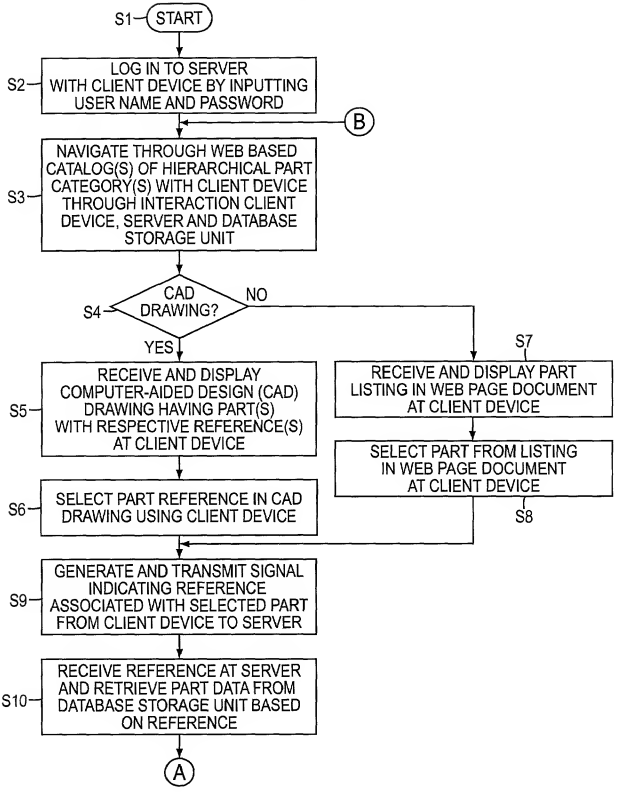
S1
START
S2
LOG IN TO SERVER WITH CLIENT DEVICE BY INPUTTING USER NAME AND PASSWORD
B
S3
NAVIGATE THROUGH WEB BASED CATALOG(S) OF HIERARCHICAL PART CATEGORY(S) WITH CLIENT DEVICE THROUGH INTERACTION CLIENT DEVICE, SERVER AND DATABASE STORAGE UNIT
S4
CAD DRAWING?
NO
YES
S7
RECEIVE AND DISPLAY PART LISTING IN WEB PAGE DOCUMENT AT CLIENT DEVICE
SELECT PART FROM LISTING IN WEB PAGE DOCUMENT AT CLIENT DEVICE
S8
S5
RECEIVE AND DISPLAY COMPUTER-AIDED DESIGN (CAD) DRAWING HAVING PART(S) WITH RESPECTIVE REFERENCE(S) AT CLIENT DEVICE
S6
SELECT PART REFERENCE IN CAD DRAWING USING CLIENT DEVICE
S9
GENERATE AND TRANSMIT SIGNAL INDICATING REFERENCE ASSOCIATED WITH SELECTED PART FROM CLIENT DEVICE TO SERVER
S10
RECEIVE REFERENCE AT SERVER AND RETRIEVE PART DATA FROM DATABASE STORAGE UNIT BASED ON REFERENCE
A

FIG. 1B

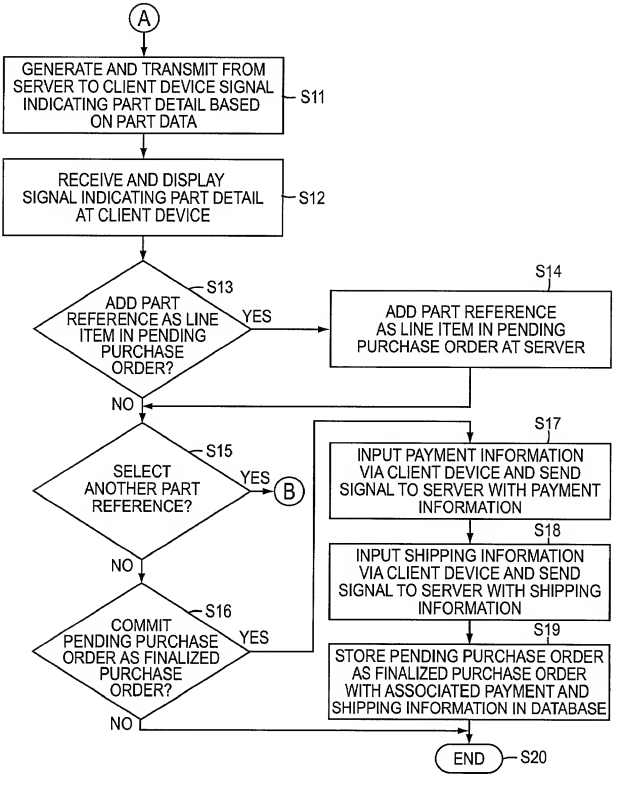
A
GENERATE AND TRANSMIT FROM SERVER TO CLIENT DEVICE SIGNAL INDICATING PART DETAIL BASED ON PART DATA
S11
RECEIVE AND DISPLAY SIGNAL INDICATING PART DETAIL AT CLIENT DEVICE
S12
ADD PART REFERENCE AS LINE ITEM IN PENDING PURCHASE ORDER?
S13
YES
NO
ADD PART REFERENCE AS LINE ITEM IN PENDING PURCHASE ORDER AT SERVER
S14
SELECT ANOTHER PART REFERENCE?
S15
YES
B
NO
COMMIT PENDING PURCHASE ORDER AS FINALIZED PURCHASE ORDER?
S16
YES
NO
INPUT PAYMENT INFORMATION VIA CLIENT DEVICE AND SEND SIGNAL TO SERVER WITH PAYMENT INFORMATION
S17
INPUT SHIPPING INFORMATION VIA CLIENT DEVICE AND SEND SIGNAL TO SERVER WITH SHIPPING INFORMATION
S18
STORE PENDING PURCHASE ORDER AS FINALIZED PURCHASE ORDER WITH ASSOCIATED PAYMENT AND SHIPPING INFORMATION IN DATABASE
S19
END
S20

FIG. 1C

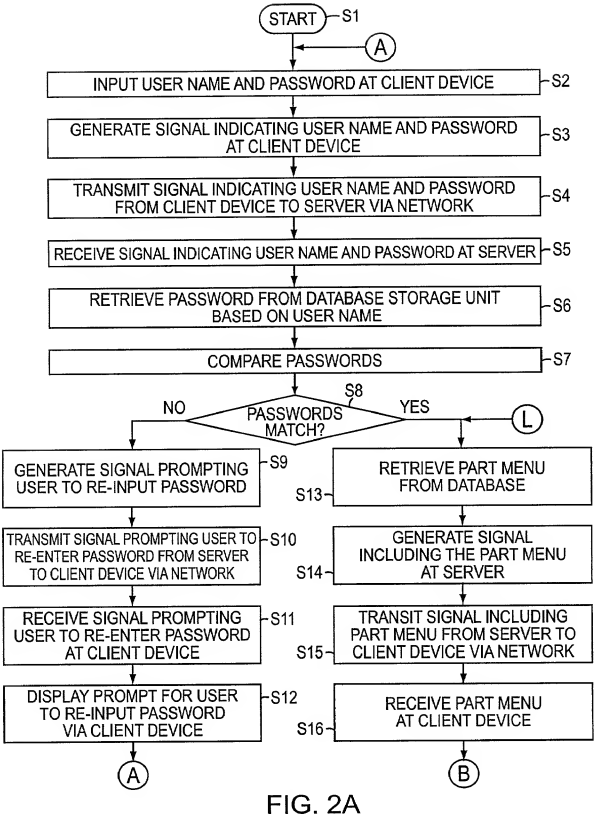
START
S1
A
INPUT USER NAME AND PASSWORD AT CLIENT DEVICE
S2
GENERATE SIGNAL INDICATING USER NAME AND PASSWORD AT CLIENT DEVICE
S3
TRANSMIT SIGNAL INDICATING USER NAME AND PASSWORD FROM CLIENT DEVICE TO SERVER VIA NETWORK
S4
RECEIVE SIGNAL INDICATING USER NAME AND PASSWORD AT SERVER
S5
RETRIEVE PASSWORD FROM DATABASE STORAGE UNIT BASED ON USER NAME
S6
COMPARE PASSWORDS
S7
S8
NO
PASSWORDS MATCH?
YES
L
GENERATE SIGNAL PROMPTING USER TO RE-INPUT PASSWORD
S9
TRANSMIT SIGNAL PROMPTING USER TO RE-ENTER PASSWORD FROM SERVER TO CLIENT DEVICE VIA NETWORK
S10
RECEIVE SIGNAL PROMPTING USER TO RE-ENTER PASSWORD AT CLIENT DEVICE
S11
DISPLAY PROMPT FOR USER TO RE-INPUT PASSWORD VIA CLIENT DEVICE
S12
A
RETRIEVE PART MENU FROM DATABASE
S13
GENERATE SIGNAL INCLUDING THE PART MENU AT SERVER
S14
TRANSIT SIGNAL INCLUDING PART MENU FROM SERVER TO CLIENT DEVICE VIA NETWORK
S15
RECEIVE PART MENU AT CLIENT DEVICE
S16
B

FIG. 2A

0.0.0.

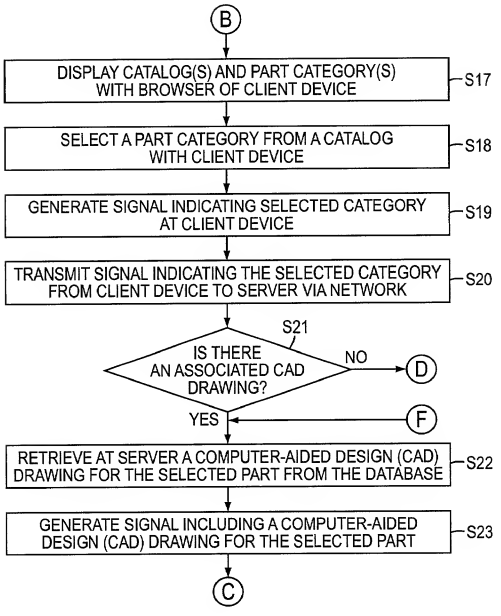
B
DISPLAY CATALOG(S) AND PART CATEGORY(S) WITH BROWSER OF CLIENT DEVICE
S17
SELECT A PART CATEGORY FROM A CATALOG WITH CLIENT DEVICE
S18
GENERATE SIGNAL INDICATING SELECTED CATEGORY AT CLIENT DEVICE
S19
TRANSMIT SIGNAL INDICATING THE SELECTED CATEGORY FROM CLIENT DEVICE TO SERVER VIA NETWORK
S20
S21
IS THERE AN ASSOCIATED CAD DRAWING?
NO
D
YES
F
RETRIEVE AT SERVER A COMPUTER-AIDED DESIGN (CAD) DRAWING FOR THE SELECTED PART FROM THE DATABASE
S22
GENERATE SIGNAL INCLUDING A COMPUTER-AIDED DESIGN (CAD) DRAWING FOR THE SELECTED PART
S23
C

FIG. 2B

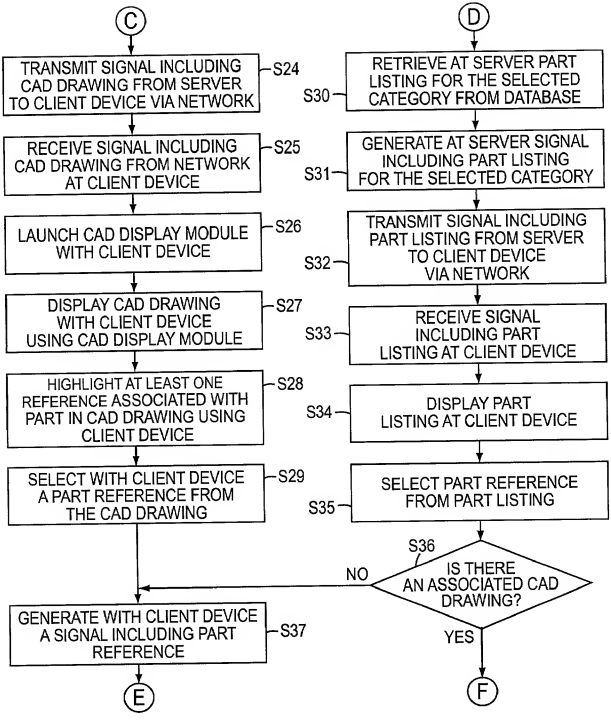
C
TRANSMIT SIGNAL INCLUDING CAD DRAWING FROM SERVER TO CLIENT DEVICE VIA NETWORK
S24
RECEIVE SIGNAL INCLUDING CAD DRAWING FROM NETWORK AT CLIENT DEVICE
S25
LAUNCH CAD DISPLAY MODULE WITH CLIENT DEVICE
S26
DISPLAY CAD DRAWING WITH CLIENT DEVICE USING CAD DISPLAY MODULE
S27
HIGHLIGHT AT LEAST ONE REFERENCE ASSOCIATED WITH PART IN CAD DRAWING USING CLIENT DEVICE
S28
SELECT WITH CLIENT DEVICE A PART REFERENCE FROM THE CAD DRAWING
S29
GENERATE WITH CLIENT DEVICE A SIGNAL INCLUDING PART REFERENCE
S37
E
D
RETRIEVE AT SERVER PART LISTING FOR THE SELECTED CATEGORY FROM DATABASE
S30
GENERATE AT SERVER SIGNAL INCLUDING PART LISTING FOR THE SELECTED CATEGORY
S31
TRANSMIT SIGNAL INCLUDING PART LISTING FROM SERVER TO CLIENT DEVICE VIA NETWORK
S32
RECEIVE SIGNAL INCLUDING PART LISTING AT CLIENT DEVICE
S33
DISPLAY PART LISTING AT CLIENT DEVICE
S34
SELECT PART REFERENCE FROM PART LISTING
S35
S36
IS THERE AN ASSOCIATED CAD DRAWING?
NO
YES
F

FIG. 2C

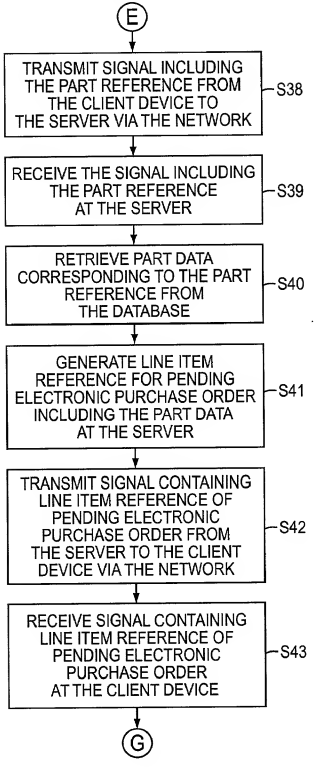

FIG. 2D

TD1000-0957/0960

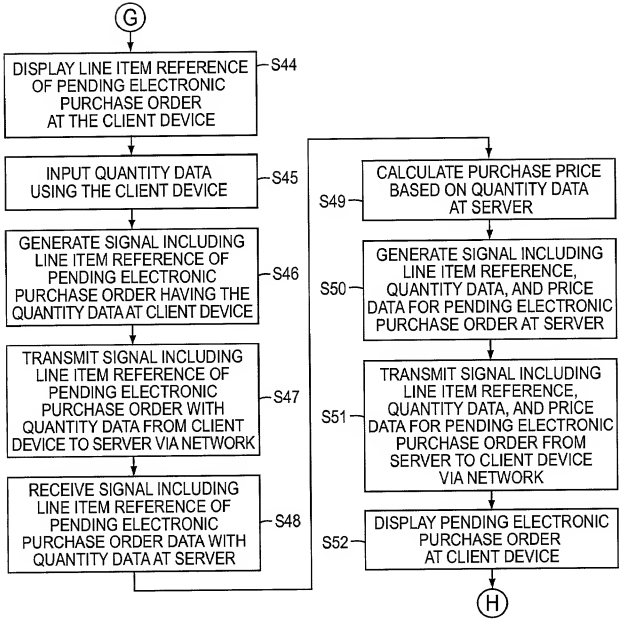

FIG. 2E

09677758.050104

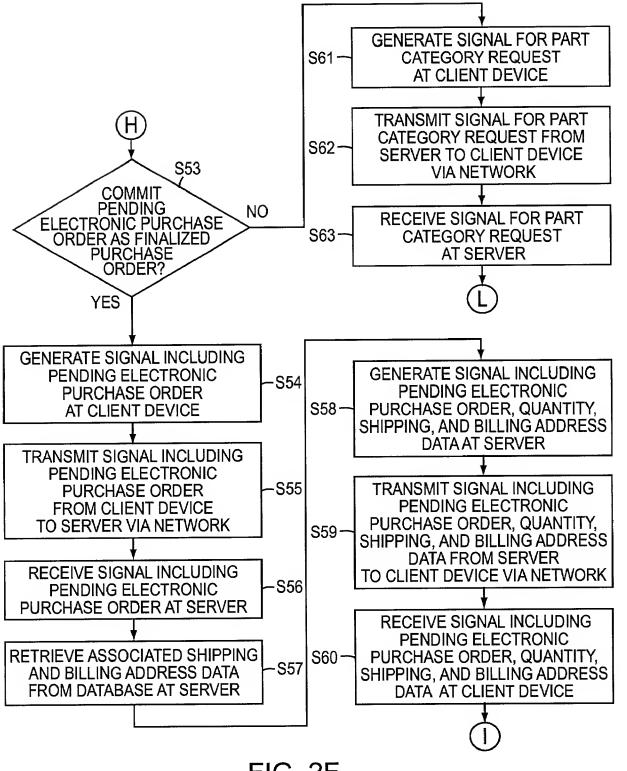

FIG. 2F

0627756.060101

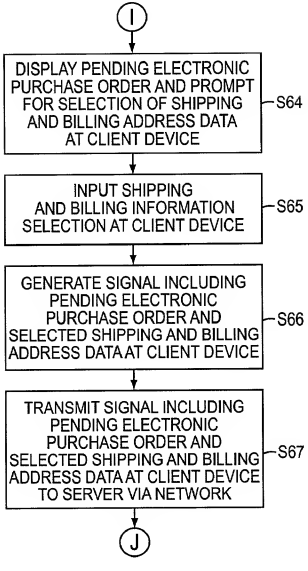

FIG. 2G

0933.1758.0501.01

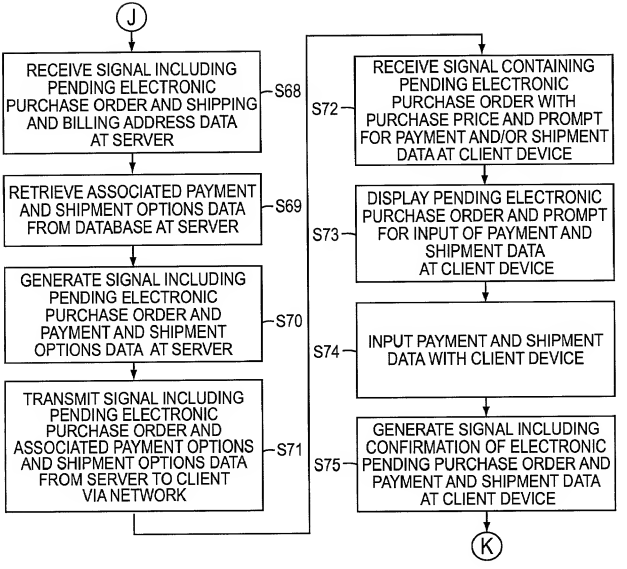
J
RECEIVE SIGNAL INCLUDING PENDING ELECTRONIC PURCHASE ORDER AND SHIPPING AND BILLING ADDRESS DATA AT SERVER
S68
RETRIEVE ASSOCIATED PAYMENT AND SHIPMENT OPTIONS DATA FROM DATABASE AT SERVER
S69
GENERATE SIGNAL INCLUDING PENDING ELECTRONIC PURCHASE ORDER AND PAYMENT AND SHIPMENT OPTIONS DATA AT SERVER
S70
TRANSMIT SIGNAL INCLUDING PENDING ELECTRONIC PURCHASE ORDER AND ASSOCIATED PAYMENT OPTIONS AND SHIPMENT OPTIONS DATA FROM SERVER TO CLIENT VIA NETWORK
S71
RECEIVE SIGNAL CONTAINING PENDING ELECTRONIC PURCHASE ORDER WITH PURCHASE PRICE AND PROMPT FOR PAYMENT AND/OR SHIPMENT DATA AT CLIENT DEVICE
S72
DISPLAY PENDING ELECTRONIC PURCHASE ORDER AND PROMPT FOR INPUT OF PAYMENT AND SHIPMENT DATA AT CLIENT DEVICE
S73
INPUT PAYMENT AND SHIPMENT DATA WITH CLIENT DEVICE
S74
GENERATE SIGNAL INCLUDING CONFIRMATION OF ELECTRONIC PENDING PURCHASE ORDER AND PAYMENT AND SHIPMENT DATA AT CLIENT DEVICE
S75
K

FIG. 2H

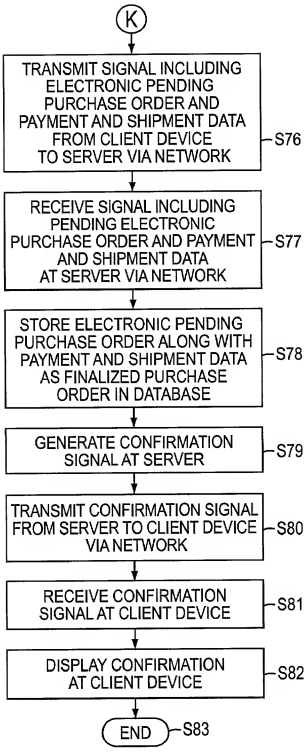

FIG. 2I

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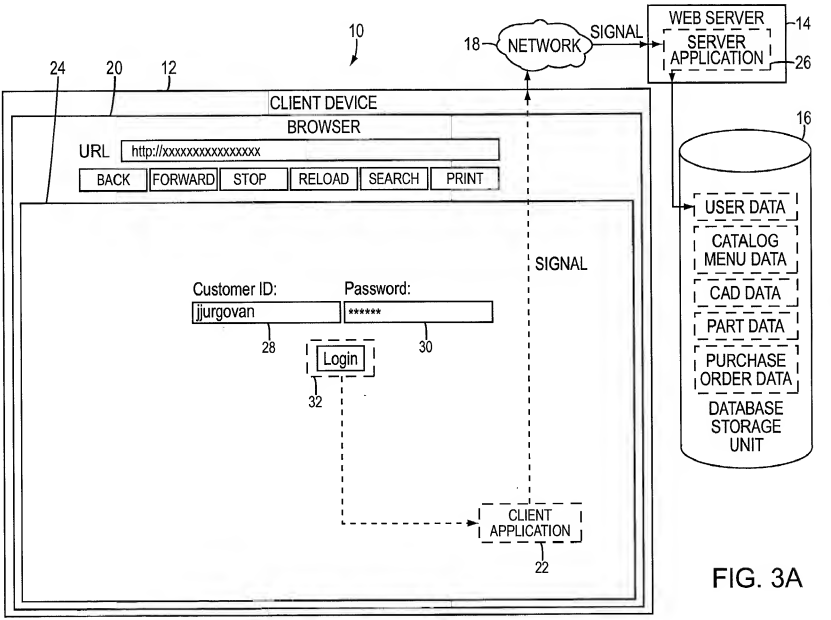


FIG. 3A

TOTO90*85717860

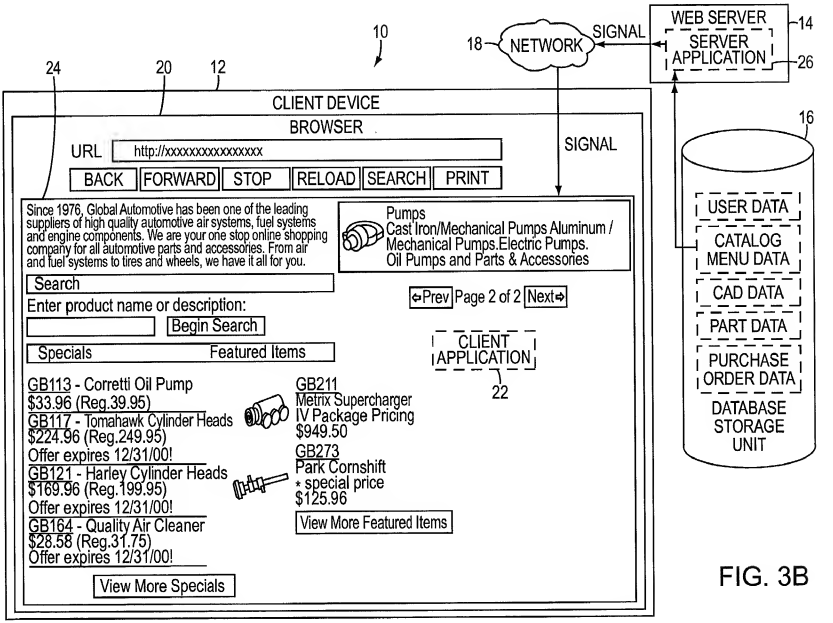
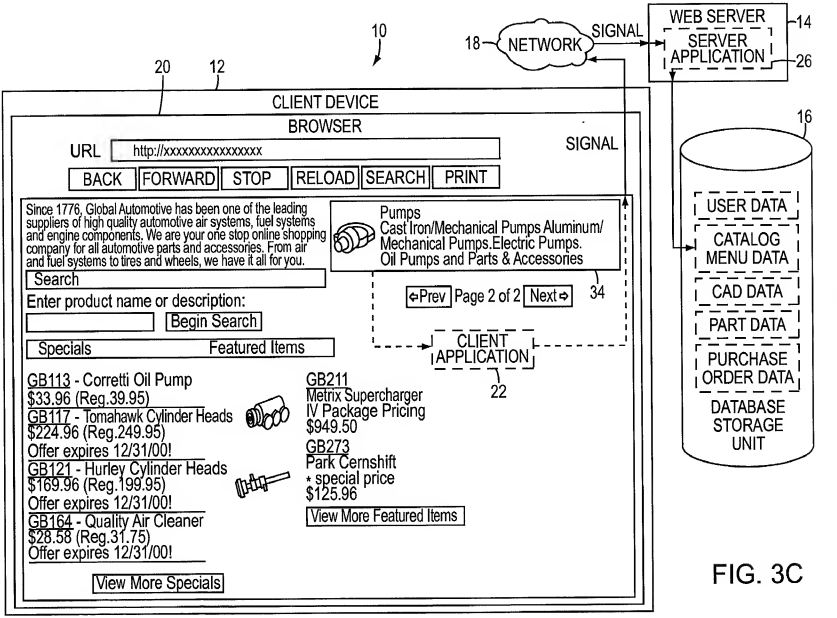


FIG. 3B


10
18
NETWORK
SIGNAL
WEB SERVER
14
SERVER APPLICATION
26
20
12
CLIENT DEVICE
BROWSER
URL
http://xxxxxxxxxxxxxxx
SIGNAL
BACK
FORWARD
STOP
RELOAD
SEARCH
PRINT
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$33.96 (Reg.39.95)
GB117 - Tomahawk Cylinder Heads
$224.96 (Reg.249.95)
Offer expires 12/31/00!
GB121 - Hurley Cylinder Heads
$169.96 (Reg.199.95)
Offer expires 12/31/00!
GB164 - Quality Air Cleaner
$28.58 (Reg.31.75)
Offer expires 12/31/00!
View More Specials
Pumps
Cast Iron/Mechanical Pumps Aluminum/ Mechanical Pumps.Electric Pumps. Oil Pumps and Parts & Accessories
←Prev
Page 2 of 2
Next→
34
CLIENT APPLICATION
22
GB211
Metrix Supercharger
IV Package Pricing
$949.50
GB273
Park Cernshift
* special price
$125.96
View More Featured Items
16
USER DATA
CATALOG MENU DATA
CAD DATA
PART DATA
PURCHASE ORDER DATA
DATABASE STORAGE UNIT

FIG. 3C

TOTC90*95/T/860

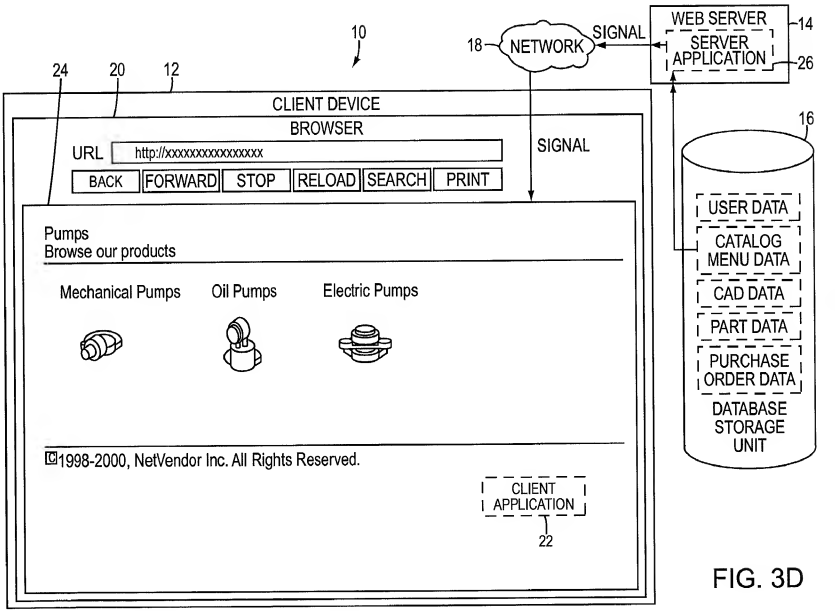
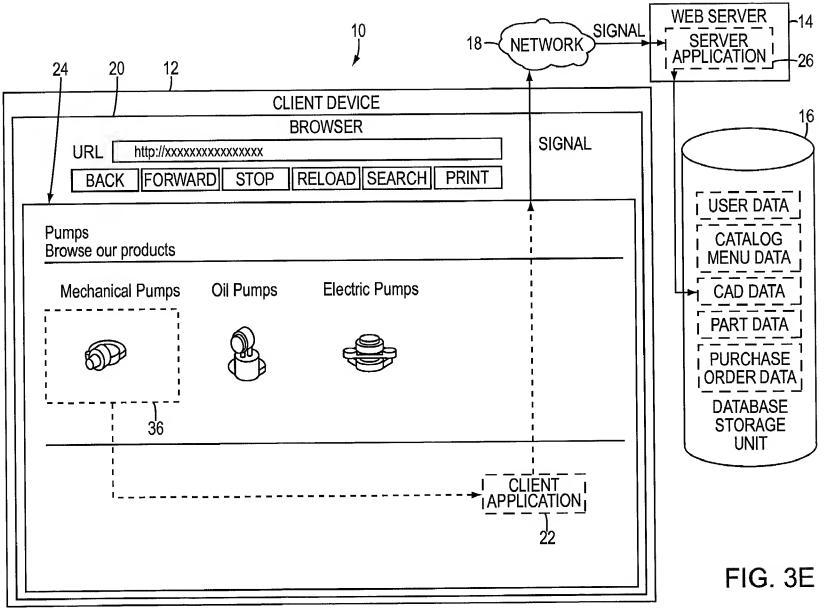


FIG. 3D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SIGNAL
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SERVER APPLICATION
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BROWSER
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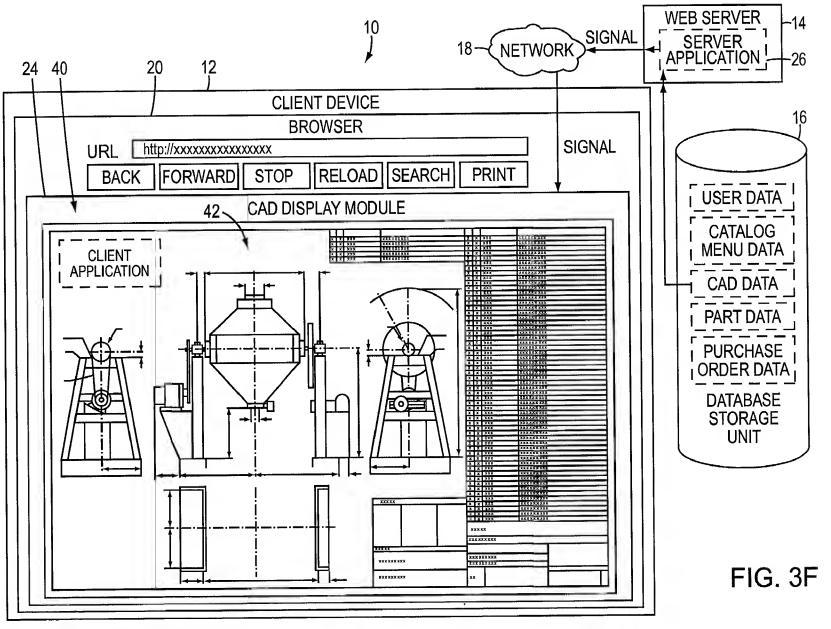
http://xxxxxxxxxxxxxxx
BACK
FORWARD
STOP
RELOAD
SEARCH
PRINT
SIGNAL
16
USER DATA
CATALOG MENU DATA
CAD DATA
PART DATA
PURCHASE ORDER DATA
DATABASE STORAGE UNIT
Pumps
Browse our products
Mechanical Pumps
Oil Pumps
Electric Pumps
36
CLIENT APPLICATION
22

FIG. 3E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WEB SERVER
SERVER APPLICATION
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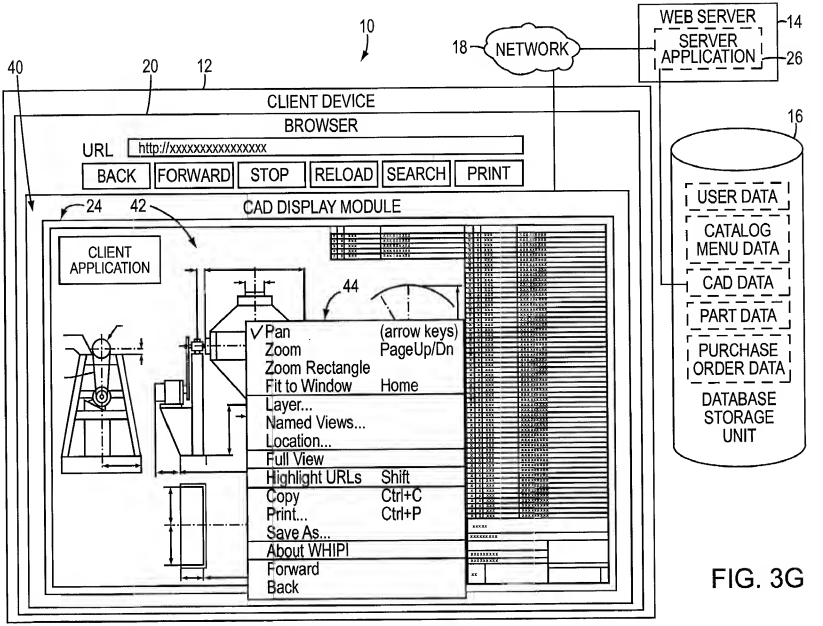
BROWSER
URL
http://xxxxxxxxxxxxxxx
BACK
FORWARD
STOP
RELOAD
SEARCH
PRINT
SIGNAL
16
42
CAD DISPLAY MODULE
CLIENT APPLICATION
USER DATA
CATALOG MENU DATA
CAD DATA
PART DATA
PURCHASE ORDER DATA
DATABASE STORAGE UNIT

FIG. 3F


10
18
NETWORK
WEB SERVER
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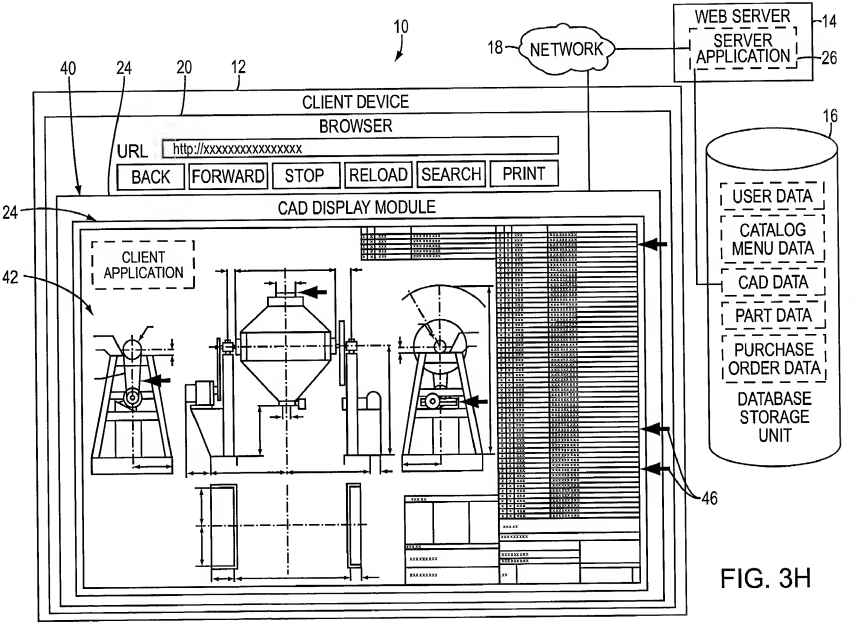
SERVER APPLICATION
26
40
20
12
CLIENT DEVICE
BROWSER
URL
http://xxxxxxxxxxxxxxx
BACK
FORWARD
STOP
RELOAD
SEARCH
PRINT
24
42
CAD DISPLAY MODULE
CLIENT APPLICATION
44
Pan (arrow keys)
Zoom PageUp/Dn
Zoom Rectangle
Fit to Window Home
Layer...
Named Views...
Location...
Full View
Highlight URLs Shift
Copy Ctrl+C
Print... Ctrl+P
Save As...
About WHIPI
Forward
Back
16
USER DATA
CATALOG MENU DATA
CAD DATA
PART DATA
PURCHASE ORDER DATA
DATABASE STORAGE UNIT

FIG. 3G


10
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NETWORK
WEB SERVER
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SERVER APPLICATION
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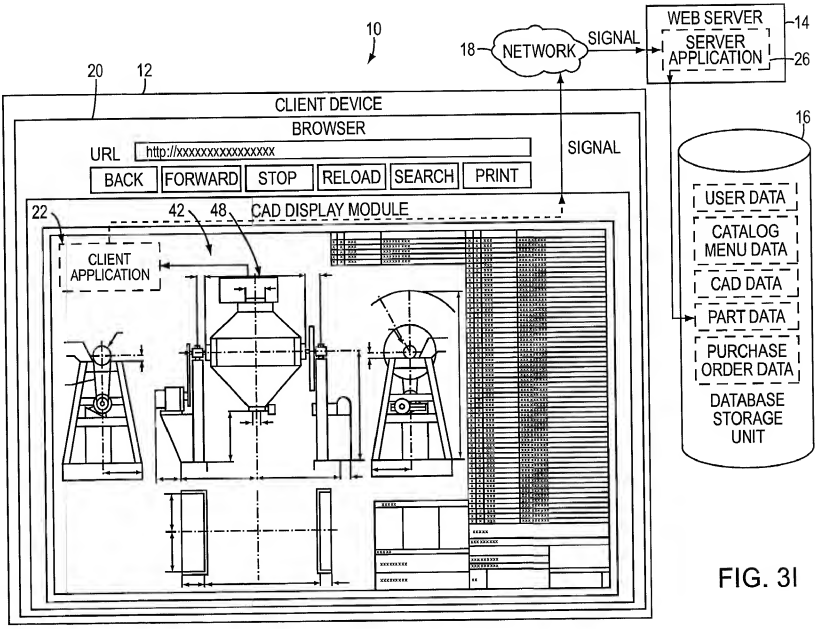
CLIENT DEVICE
BROWSER
URL
http://xxxxxxxxxxxxxxx
BACK
FORWARD
STOP
RELOAD
SEARCH
PRINT
16
USER DATA
CATALOG MENU DATA
CAD DATA
PART DATA
PURCHASE ORDER DATA
DATABASE STORAGE UNIT
24
CAD DISPLAY MODULE
CLIENT APPLICATION
42
46

FIG. 3H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NETWORK
SIGNAL
WEB SERVER
14
SERVER APPLICATION
26
20
12
CLIENT DEVICE
BROWSER
URL
http://xxxxxxxxxxxxxxx
BACK
FORWARD
STOP
RELOAD
SEARCH
PRINT
SIGNAL
16
22
42
48
CAD DISPLAY MODULE
CLIENT APPLICATION
USER DATA
CATALOG MENU DATA
CAD DATA
PART DATA
PURCHASE ORDER DATA
DATABASE STORAGE UNIT

FIG. 3I

TOTO90*85ZT2860

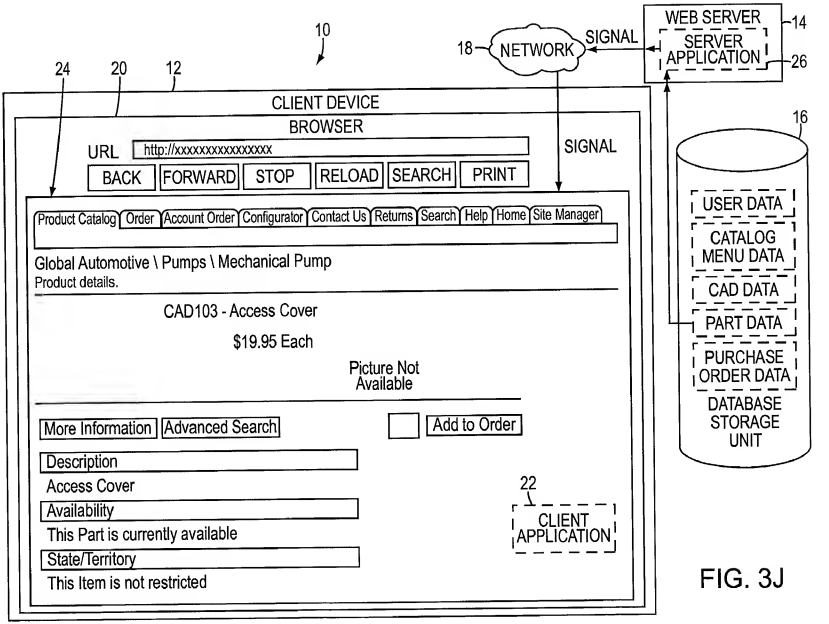


FIG. 3J

TOTO90 "8527298 090104

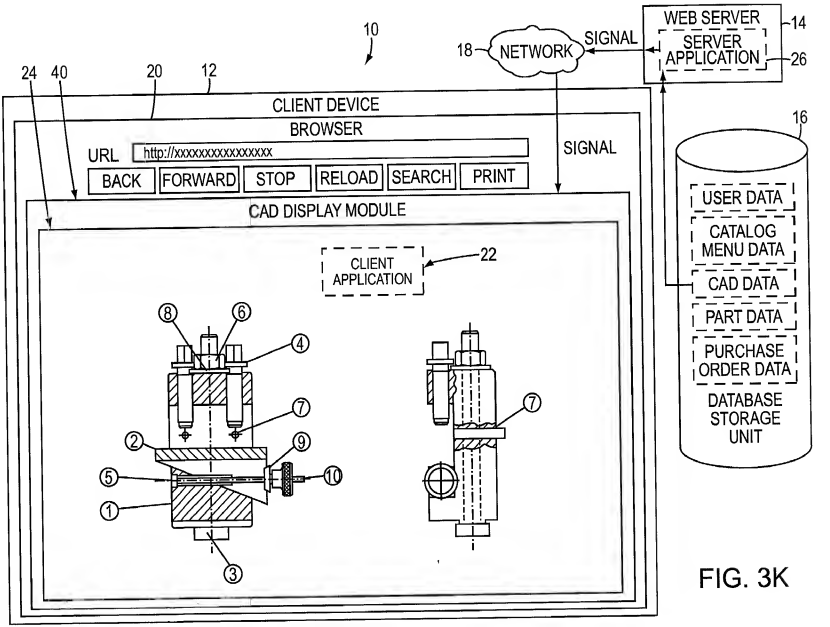
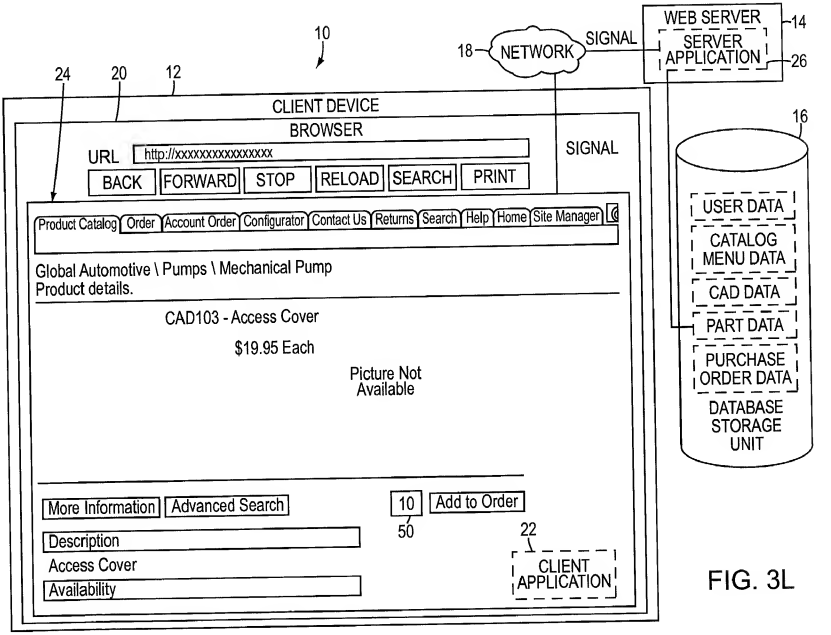


FIG. 3K


10
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NETWORK
SIGNAL
WEB SERVER
SERVER APPLICATION
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CLIENT DEVICE
BROWSER
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SIGNAL
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STOP
RELOAD
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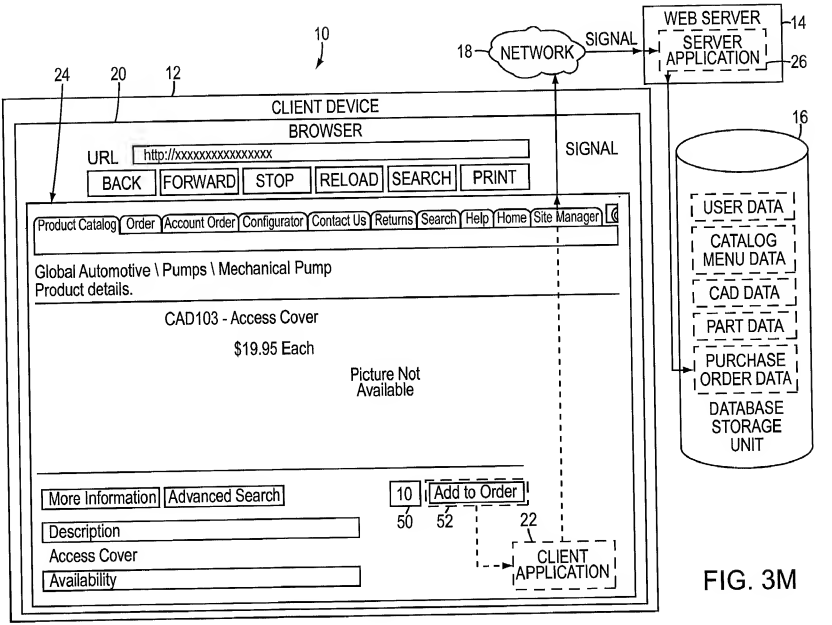
Product Catalog
Order
Account Order
Configurator
Contact Us
Returns
Search
Help
Home
Site Manager
Global Automotive \ Pumps \ Mechanical Pump
Product details.
CAD103 - Access Cover
$19.95 Each
Picture Not Available
More Information
Advanced Search
10
Add to Order
50
22
Description
Access Cover
Availability
CLIENT APPLICATION
16
USER DATA
CATALOG MENU DATA
CAD DATA
PART DATA
PURCHASE ORDER DATA
DATABASE STORAGE UNIT

FIG. 3L


10
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NETWORK
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SERVER APPLICATION
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BROWSER
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http://xxxxxxxxxxxxxx
SIGNAL
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PRINT
Product Catalog
Order
Account Order
Configurator
Contact Us
Returns
Search
Help
Home
Site Manager
Global Automotive \ Pumps \ Mechanical Pump
Product details.
CAD103 - Access Cover
$19.95 Each
Picture Not Available
More Information
Advanced Search
10
Add to Order
50
52
22
Description
Access Cover
Availability
CLIENT APPLICATION
16
USER DATA
CATALOG MENU DATA
CAD DATA
PART DATA
PURCHASE ORDER DATA
DATABASE STORAGE UNIT

FIG. 3M

TOTO90*8571286O

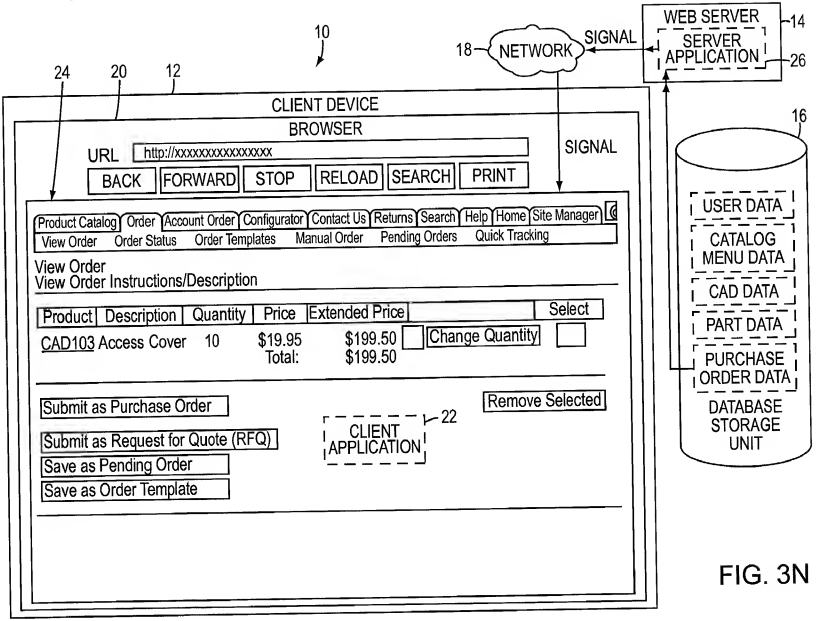
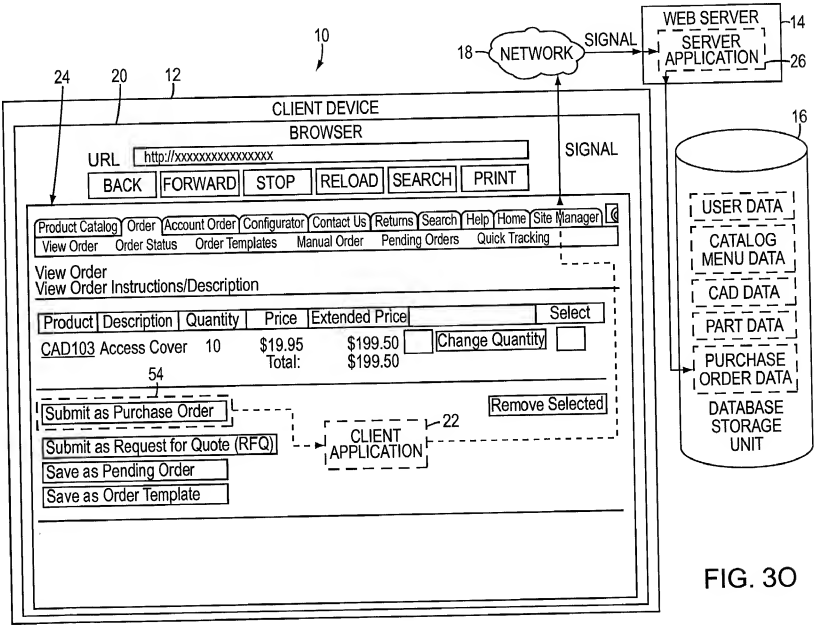


FIG. 3N


10
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NETWORK
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SERVER APPLICATION
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CLIENT DEVICE
BROWSER
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RELOAD
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Product Catalog
Order
Account Order
Configurator
Contact Us
Returns
Search
Help
Home
Site Manager
View Order
Order Status
Order Templates
Manual Order
Pending Orders
Quick Tracking
View Order
View Order Instructions/Description
Product
Description
Quantity
Price
Extended Price
Select
CAD103 Access Cover
10
$19.95
$199.50
Change Quantity
Total:
$199.50
54
Submit as Purchase Order
Remove Selected
Submit as Request for Quote (RFQ)
CLIENT APPLICATION
22
Save as Pending Order
Save as Order Template
16
USER DATA
CATALOG MENU DATA
CAD DATA
PART DATA
PURCHASE ORDER DATA
DATABASE STORAGE UNIT

FIG. 30

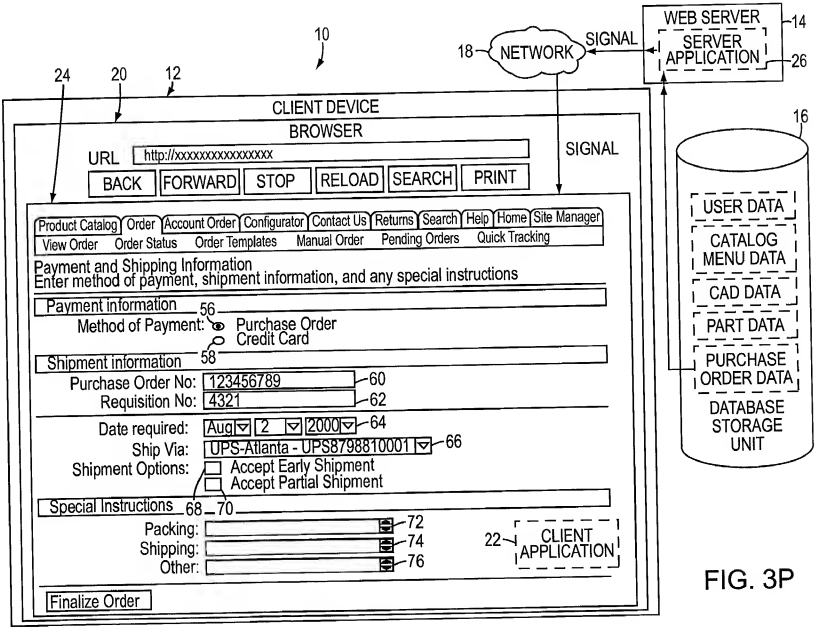
10
24
20
12
18
NETWORK
SIGNAL
WEB SERVER
SERVER APPLICATION
14
26
16
CLIENT DEVICE
BROWSER
URL
http://xxxxxxxxxxxxxxx
SIGNAL
BACK
FORWARD
STOP
RELOAD
SEARCH
PRINT
Product Catalog
Order
Account Order
Configurator
Contact Us
Returns
Search
Help
Home
Site Manager
View Order
Order Status
Order Templates
Manual Order
Pending Orders
Quick Tracking
Payment and Shipping Information
Enter method of payment, shipment information, and any special instructions
Payment information
56
Method of Payment:
Purchase Order
Credit Card
Shipment information
58
Purchase Order No:
123456789
60
Requisition No:
4321
62
Date required:
Aug
2
2000
64
Ship Via:
UPS-Atlanta - UPS8798810001
66
Shipment Options:
Accept Early Shipment
Accept Partial Shipment
Special Instructions
68
70
Packing:
72
Shipping:
74
Other:
76
22
CLIENT APPLICATION
Finalize Order
USER DATA
CATALOG MENU DATA
CAD DATA
PART DATA
PURCHASE ORDER DATA
DATABASE STORAGE UNIT

FIG. 3P

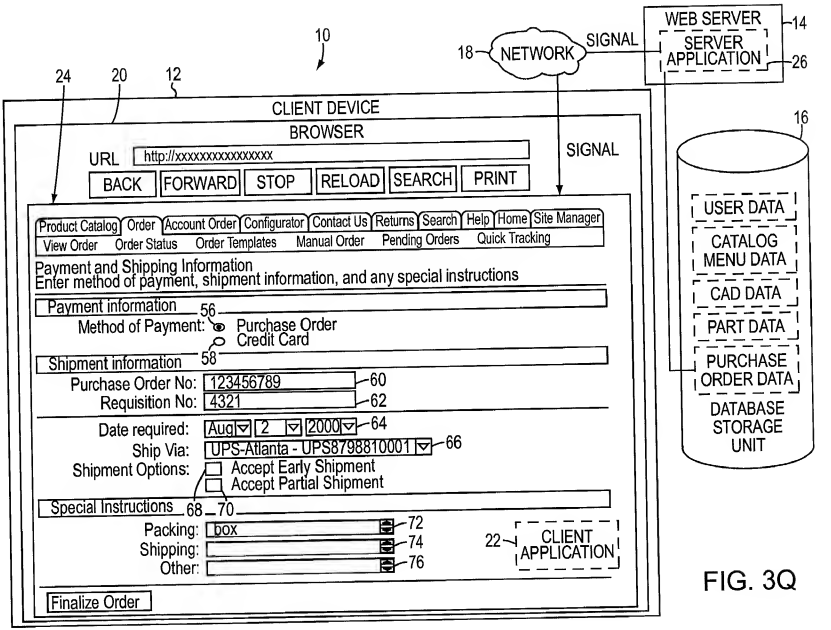
10
24
20
12
CLIENT DEVICE
BROWSER
URL
http://xxxxxxxxxxxxxxx
BACK
FORWARD
STOP
RELOAD
SEARCH
PRINT
Product Catalog
Order
Account Order
Configurator
Contact Us
Returns
Search
Help
Home
Site Manager
View Order
Order Status
Order Templates
Manual Order
Pending Orders
Quick Tracking
Payment and Shipping Information
Enter method of payment, shipment information, and any special instructions
Payment information
56
Method of Payment:
Purchase Order
Credit Card
Shipment information
58
Purchase Order No:
123456789
60
Requisition No:
4321
62
Date required:
Aug
2
2000
64
Ship Via:
UPS-Atlanta - UPS8798810001
66
Shipment Options:
Accept Early Shipment
Accept Partial Shipment
Special Instructions
68
70
Packing:
box
72
Shipping:
74
Other:
76
Finalize Order
22
CLIENT APPLICATION
18
NETWORK
SIGNAL
SIGNAL
WEB SERVER
SERVER APPLICATION
14
26
16
USER DATA
CATALOG MENU DATA
CAD DATA
PART DATA
PURCHASE ORDER DATA
DATABASE STORAGE UNIT

FIG. 3Q

TOTO90 8527/960

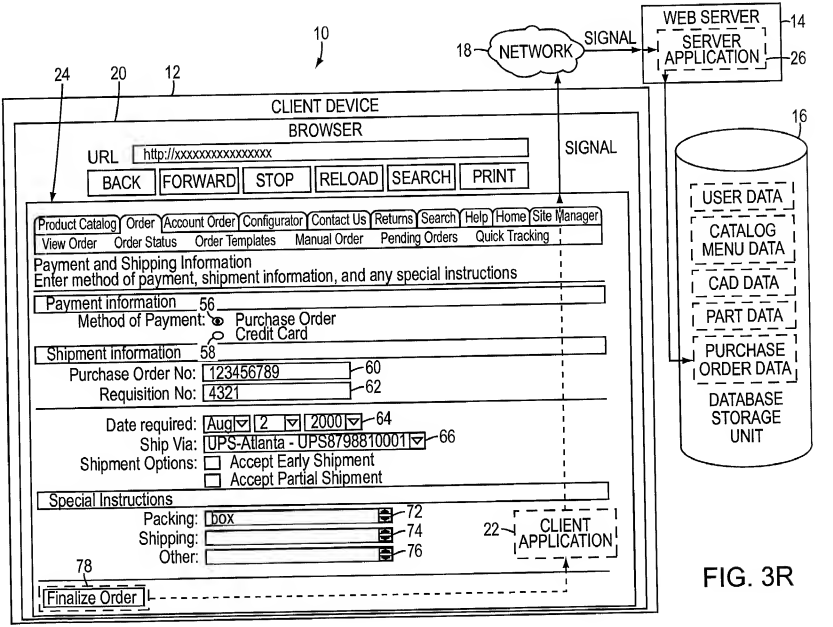

FIG. 3R

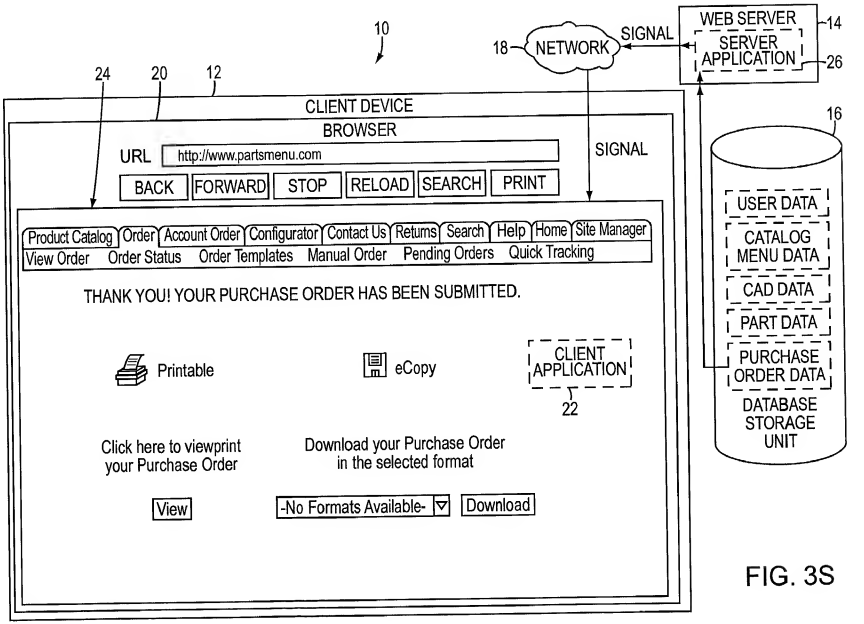
10
18
NETWORK
SIGNAL
WEB SERVER
SERVER APPLICATION
14
26
24
20
12
CLIENT DEVICE
BROWSER
URL
http://www.partsmenu.com
SIGNAL
BACK
FORWARD
STOP
RELOAD
SEARCH
PRINT
Product Catalog
Order
Account Order
Configurator
Contact Us
Returns
Search
Help
Home
Site Manager
View Order
Order Status
Order Templates
Manual Order
Pending Orders
Quick Tracking
THANK YOU! YOUR PURCHASE ORDER HAS BEEN SUBMITTED.
Printable
eCopy
CLIENT APPLICATION
22
Click here to viewprint your Purchase Order
Download your Purchase Order in the selected format
View
-No Formats Available-
Download
16
USER DATA
CATALOG MENU DATA
CAD DATA
PART DATA
PURCHASE ORDER DATA
DATABASE STORAGE UNIT

FIG. 3S

TOTO90*852T2960

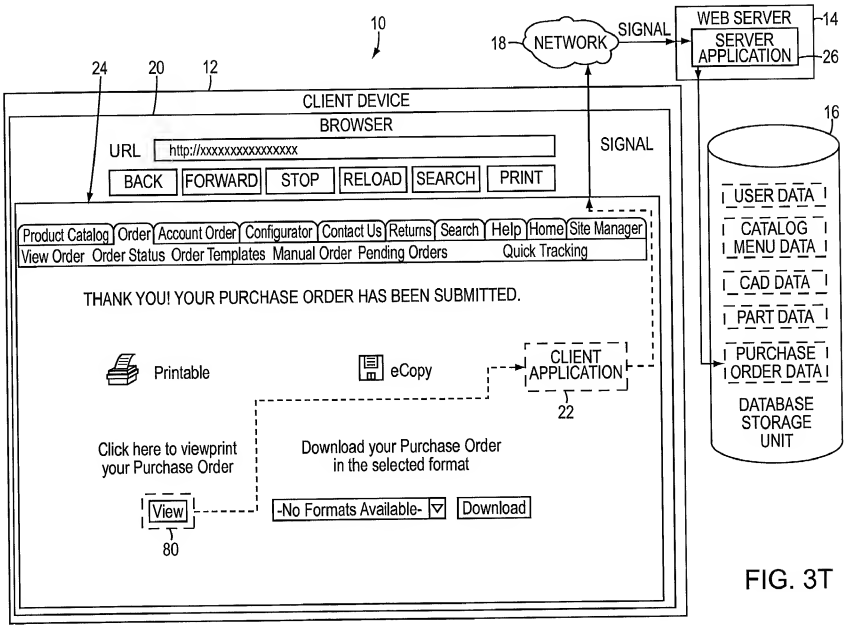

FIG. 3T

TOT090'8S7Z7S8Z

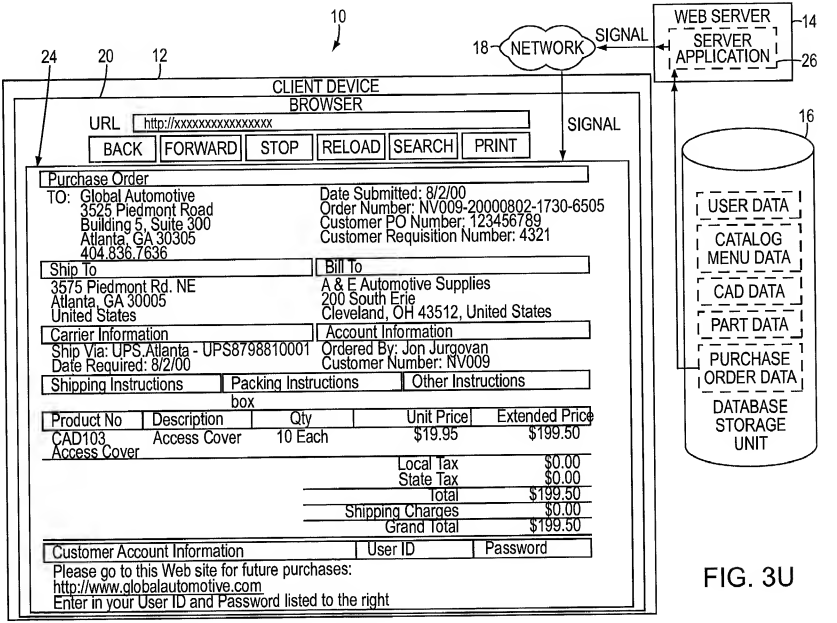

FIG. 3U

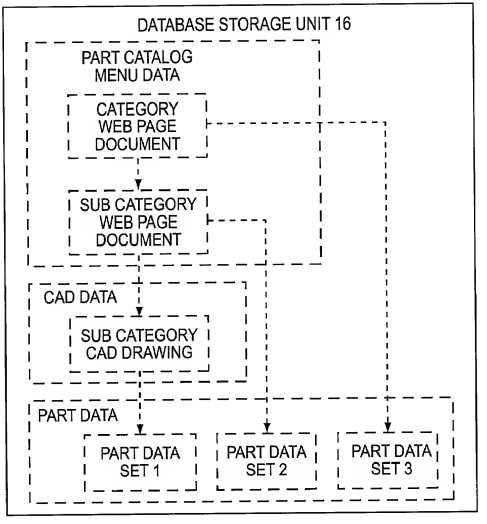

FIG. 4A

09871759.060101

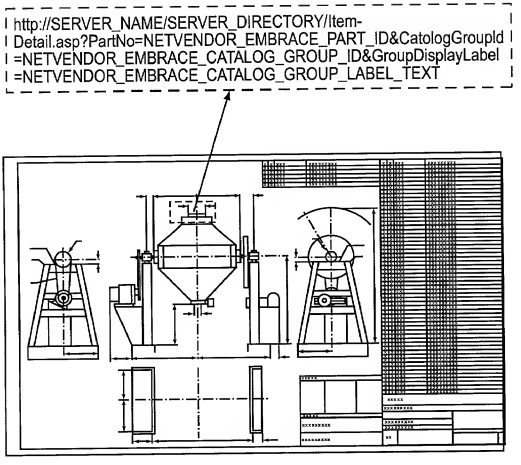

FIG. 4B

09671759 .060101

TOTO90'85ZTZ860

PART DATA			
	PART IDENTIFICATION DATA		
REFERENCE	PART NAME DATA	PART DESCRIPTION	PART PRICE
http://SERVER_NAME/SERVER_DIRECTORY/Item-Detail.asp?PartNo=NETVENDOR_EMBRACE_PART_ID&CatologGroupId=NETVENDOR_EMBRACE_CATALOG_GROUP_ID&GroupDisplayLabel=NETVENDOR_EMBRACE_CATALOG_GROUP_LABEL_TEXT	CAD103	Access Cover	$19.95

FIG. 4C

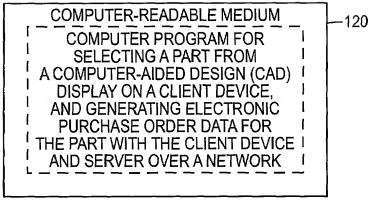

FIG. 5A

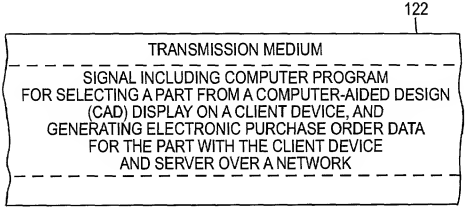

FIG. 5B

TOTO90 "85717860